HLO 51112047C
Hawai'i

LINDA LINGLE
GOVERNOR OF HAWAII

CHIYOME L. FUKINO, M.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
SAFE DRINKING WATER BRANCH
919 Ala Moana Boulevard, Room 308
Honolulu, Hawaii 96814

In reply, please refer to:
File: SDWB

January 11, 2010

Mr. Lono Tyson
Director
Department of Environmental Management
25 Aupuni Street
Hilo, Hawai`i 96720

ATTENTION: Mr. Gene Quiamas

Dear Mr. Tyson:

SUBJECT: **KOMOHANA HEIGHTS;**
UNDERGROUND INJECTION CONTROL (UIC) PROGRAM'S REVIEW OF INJECTION-WELL CESSPOOL BACKFILLING
FINAL COMPLETION REPORT DATED 12/18/2009,
UIC FILE NO. UH-2597

Based on the submitted information, the abandonment work for the two injection wells appears completed. Therefore, as of this letter's date, UIC File UH-2597 is closed.

Please be aware that this file closure does not absolve the facility from responsibility should environmental problems arise from the past construction or operation of the injection wells.

If you have any questions regarding this subject, please contact Jaime Rimando of the Safe Drinking Water Branch at 586-4258 (Honolulu) or call direct toll free from Big Island at 974-4000, ext. 64258.

Sincerely,

STUART YAMADA, P.E., CHIEF
Safe Drinking Water Branch
Environmental Management Division

JR:nbp

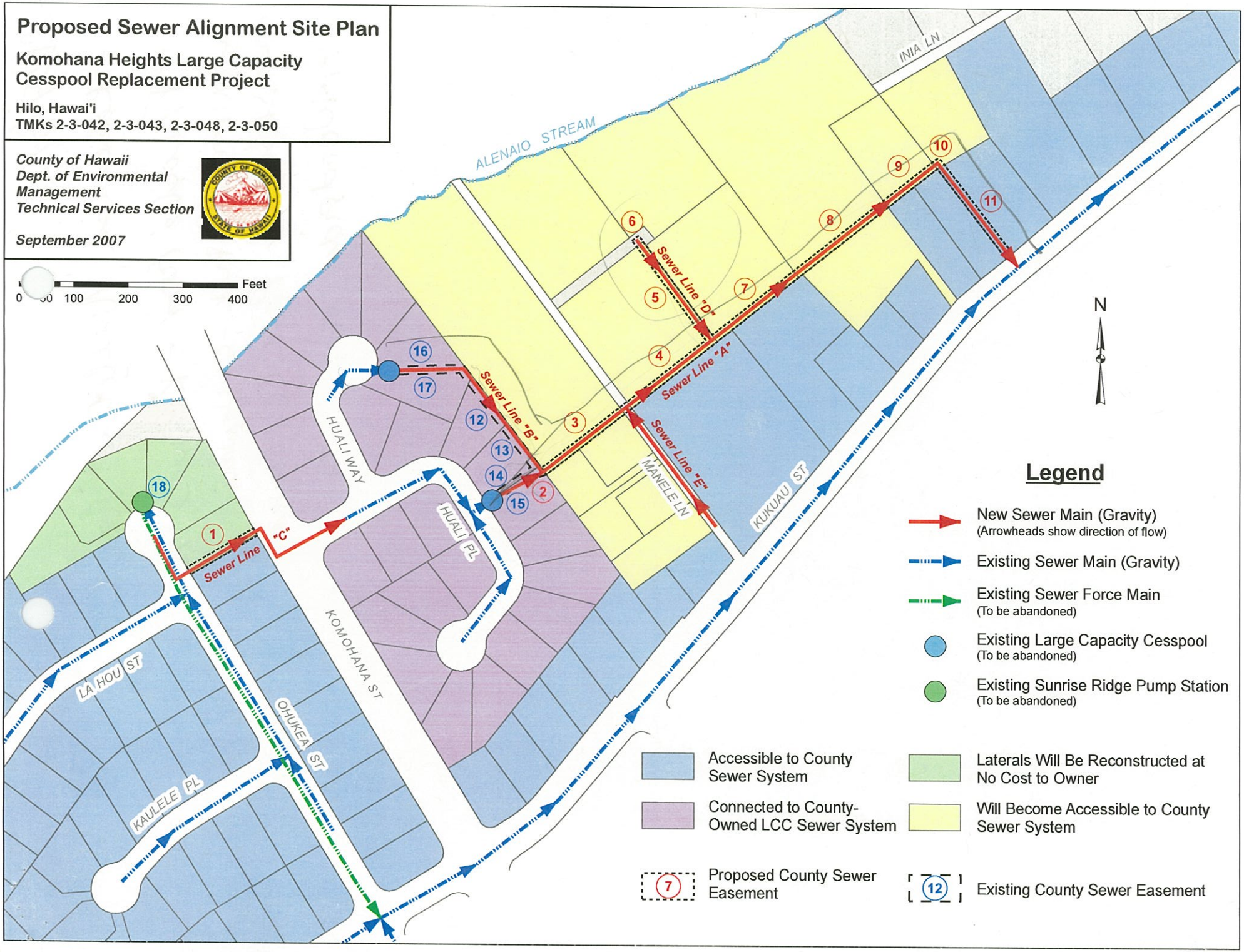
c: Katherine Rao
Ground Water Office (WTR-9)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, Ca 94105

KOMOHANA HEIGHTS LARGE CAPACITY CESSPOOL CONVERSION PROJECT

Hilo, Hawaii

County of Hawaii
Dept. of Environmental Management
Wastewater Division

May 2009


Proposed Sewer Alignment Site Plan
Komohana Heights Large Capacity Cesspool Replacement Project
Hilo, Hawai'i
TMKs 2-3-042, 2-3-043, 2-3-048, 2-3-050
County of Hawaii
Dept. of Environmental Management
Technical Services Section
September 2007
0 100 200 300 400 Feet
ALENAIO STREAM
INIA LN
Sewer Line "A"
Sewer Line "B"
Sewer Line "C"
Sewer Line "D"
Sewer Line "E"
Sewer Line
HUALI WAY
HUALI PL
KOMOHANA ST
TT MANELE LN
KUKUAU ST
LA HOU ST
OHUKEA ST
KAULELE PL
N
Legend
New Sewer Main (Gravity)
(Arrowheads show direction of flow)
Existing Sewer Main (Gravity)
Existing Sewer Force Main
(To be abandoned)
Existing Large Capacity Cesspool
(To be abandoned)
Existing Sunrise Ridge Pump Station
(To be abandoned)
Accessible to County Sewer System
Connected to County-Owned LCC Sewer System
Laterals Will Be Reconstructed at No Cost to Owner
Will Become Accessible to County Sewer System
Proposed County Sewer Easement
Existing County Sewer Easement

December 17, 2009

Komohana Heights Large Capacity Cesspool Replacement
Hilo, Hawai`i, County of Hawai`i
Department of Environmental Management, Wastewater Division
Job No. WW-3719

Subject: **Cesspool Closure Report – State of Hawai`i Department of Health Safe Drinking Water Branch (SDWB), UIC Permit #UH-2597**

Method of Closure: Cesspool A

December 15, 2009

Cesspool Diameter: ±13' Depth: ±22'6"

1. The cesspool cover was located and a three foot (3') wide section of the cesspool cover was removed to expose the cesspool.
2. Inverts were verified and the existing 8" VCP pipe was connected to the new sewer manhole #8 to bypass the cesspool.
3. B&B Pumping Service was on site to clean, pump and removed the liquids and solids from the cesspool's walls and bottom. Approx. 4' of liquids and solids (3,200 gals.) were disposed at the Hilo Wastewater Treatment Plant.
4. Upon completion of the cleaning and pumping, visual inspection was done. No ground water was evident.

December 16, 2009

1. 100 cubic yards of Controlled Low-Strength Material (CLSM) 500 psi was used to fill the cesspool. The material was not permitted to fall greater than 6'. To achieve this, the contractor inserted an 18" corrugated pipe into the hole and released the concrete into the corrugated pipe.

Method of Closure: Cesspool B

December 16, 2009

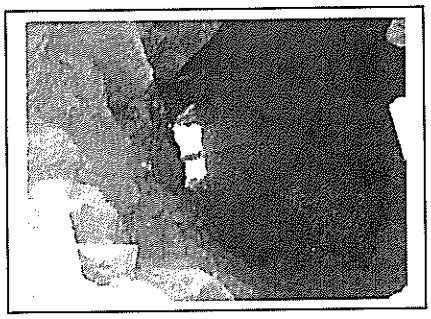
Cesspool Diameter: 13' Depth: 23'

1. The cesspool cover was located and a three foot (3') trench was wide section of the cesspool cover was removed to expose the cesspool.
2. Inverts were verified and the existing 8" VCP pipe was connected to the new sewer manhole #10 to bypass the cesspool.
3. B&B Pumping Service was on site to pump the liquids and some solids from the bottom of the cesspool. The Hilo Line Maintenance Section also assisted to remove heavy debris (rags) from the walls and bottom of the cesspool using a Vactor Truck. Approx. 2' of liquids and solids (1,500 gals.) were disposed at the Hilo Wastewater Treatment Plant.
4. Upon completion of the cleaning and pumping, visual inspection was done. No ground water was evident.

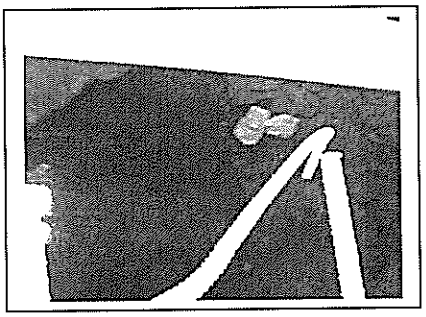
December 17, 2009

1. 100 cu. yards of Controlled Low-Strength Material (CLSM) 500 psi was used to fill the cesspool. The material was not permitted to fall greater than 6'. To achieve this, the contractor inserted an 18" corrugated pipe into the hole and released the concrete into the corrugated pipe.

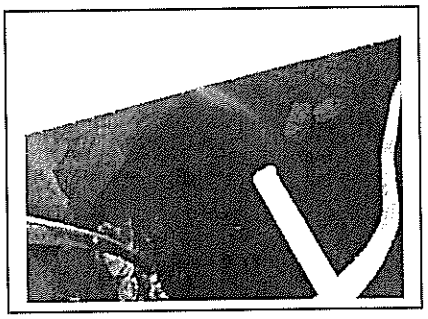
Cesspool A – Komohana Heights LCC Closure – Permit # UH 2597



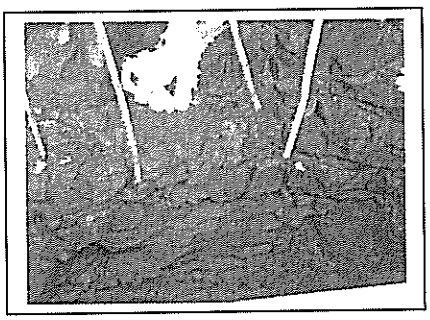
Cesspool A Prior to cleaning



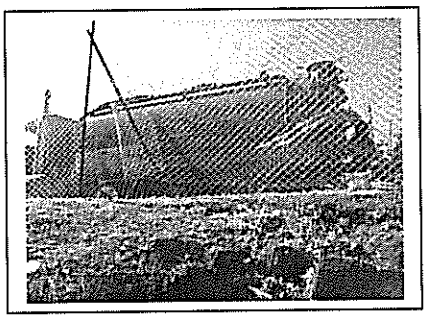
Cesspool A – Prior to Cleaning



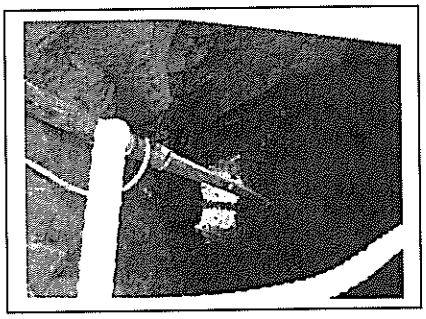
Cesspool A – Cleaning of Side Walls



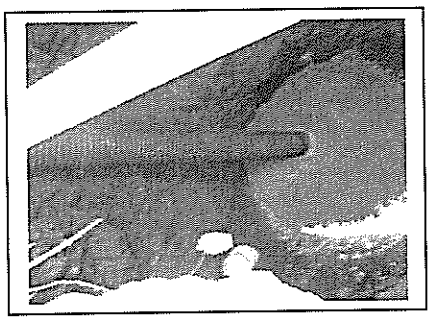
Cesspool A – Side wall view



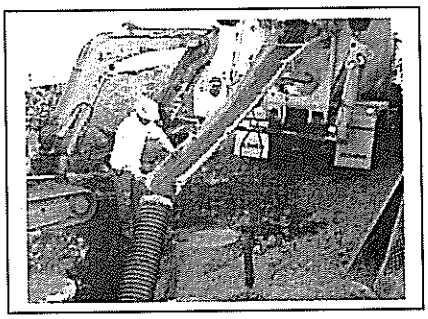
B&B Pumping



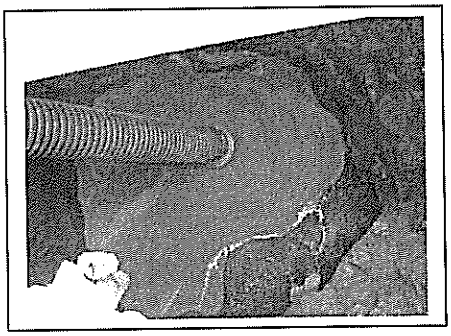
Cesspool A - Pumping of Sludge & Debris



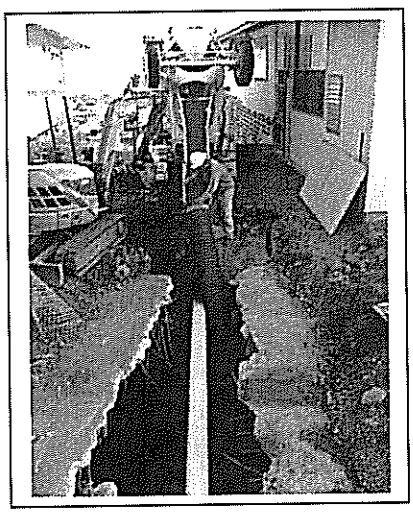
Cesspool A – early stage of backfilling

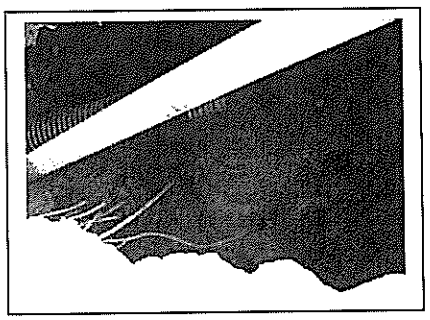


Cesspool A – Method of backfilling Trunk

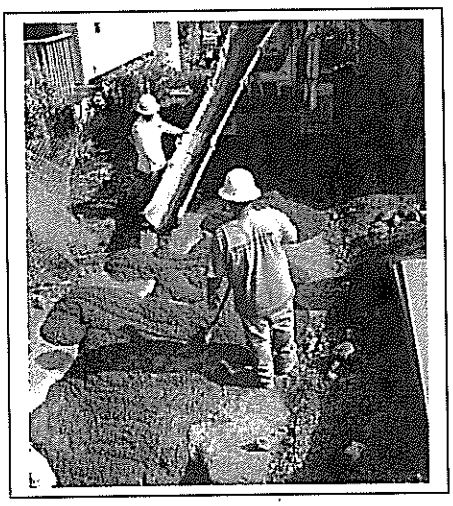


Cesspool A – Trunk

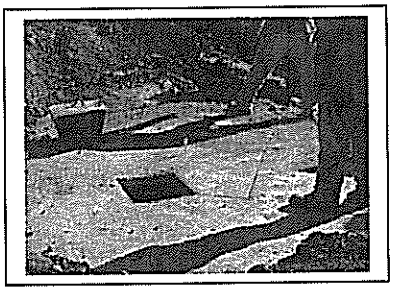




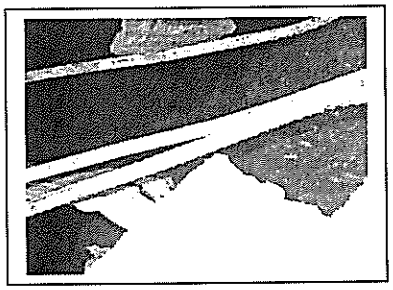
Cesspool A – backfilling in lifts w/CLSM



Cesspool B – Komohana Heights LCC Closure – Permit # UH 2597

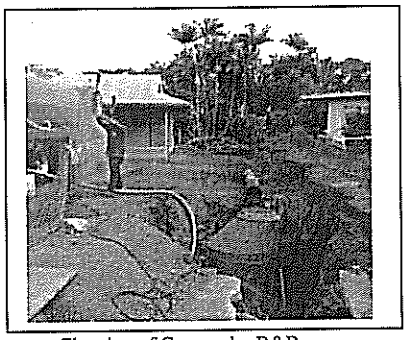


Cesspool B- Cutting of Cover

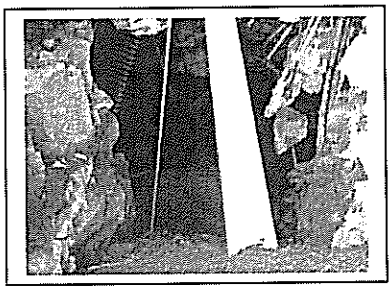


Cesspool B – prior to cleaning

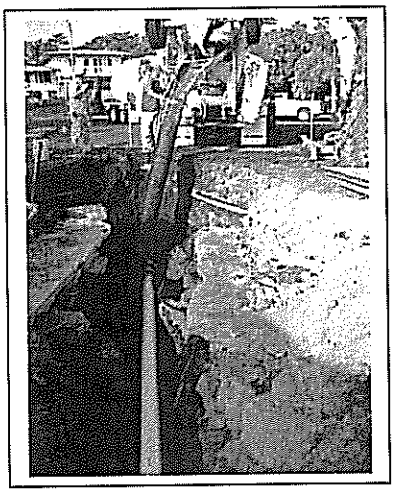
Cesspool B after cleaning

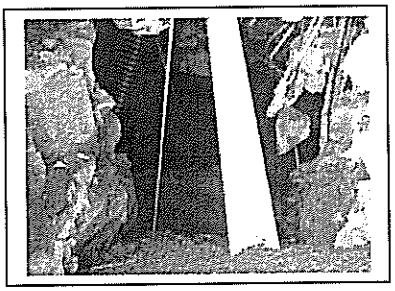


Cleaning of Cesspool – B&B

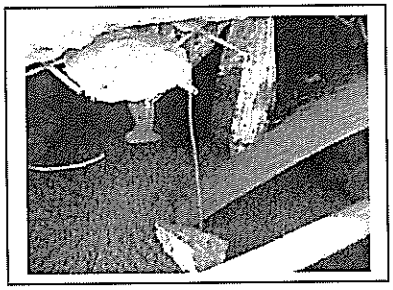


Cesspool B – gradual lifts

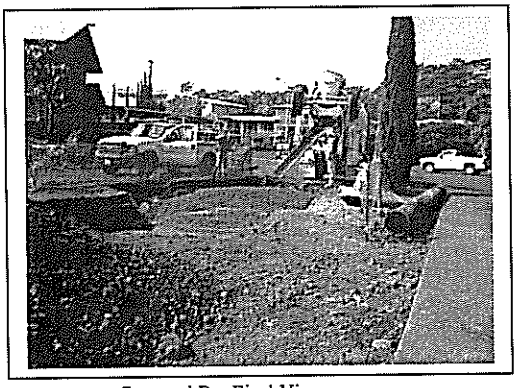




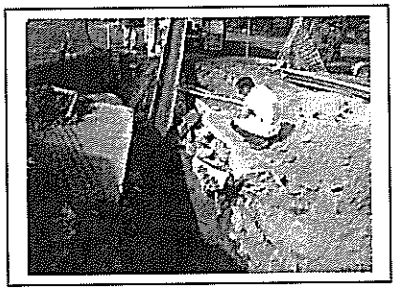
Cesspool B – ½ full



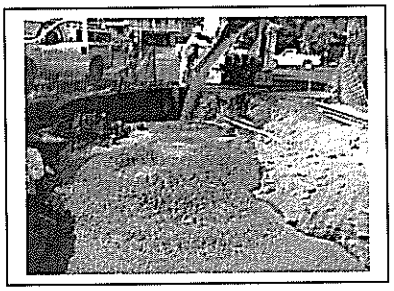
Cesspool B – ¾ full



Cesspool B – Final View



Cesspool B – Filling to Cover



Cesspool B – Closure Complete